

CLAIMS:

1. An electrical mains-powered actuator (10) designed to operate a closing, darkening or solar protection element comprising, in a common enclosure (7), a direct current motor (5), a board (4) controlling the motor (5) power supply and an AC/DC voltage converter (3), the control board (4) including a radio-wave receiver (41), characterized in that the voltage converter (3) enables lowering of the voltage and includes at least one switch controlled at a frequency (F1) such that it is at most equal to twice the mains sector frequency or such that its ratio to the radio-wave receiver frequency (F0) ranges between  $2.2 \cdot 10^{-5}$  to  $2.2 \cdot 10^{-4}$ .
2. The electrical actuator (10) as claimed in claim 1, characterized in that the voltage converter (3) comprises a voltage transformer.
3. The electrical actuator (10) as claimed in one of the preceding claims, characterized in that the converter (3) and the control board (4) are mounted on one and the same printed circuit.
4. The electrical actuator (10) as claimed in one of the preceding claims, characterized in that the radio-wave receiver (41) of the control board is provided with an antenna located inside the enclosure (7) of the actuator.